

Disease Dynamics of Avian Malaria in Hawai'i Following Multiple Vector Introductions



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Objectives:

- ☆ Determine identity, origin and evolutionary behavior of *Plasmodium relictum*
- ☆ Determine extent of introgression in the vector, *Culex* mosquitoes
- ☆ Determine whether different vector genotypes vary in transmitting parasite

Accomplishments:

- ☆ Obtained DNA from museum samples of *P. relictum* from around the world
- ☆ Developed PCR primers for investigating genetic diversity and phylogeny

Significance:

- ☆ Provide new insights into how the pathogen and vector are interacting and evolving
- ☆ Provide information that may explain anomalies in current system